

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

(Use as many sheets as necessary)

Sheet 1

of 12

Complete if Known

Application Number	To be assigned
Filing Date	
First Named Inventor	Wayne State University et al.
Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	WSU-00002

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

***EXAMINER: Initial if reference considered. Whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.**

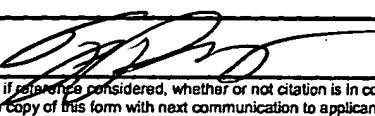
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	To be assigned
		Filing Date	
		First Named Inventor	Wayne State University et al.
		Art Unit	To be assigned
		Examiner Name	To be assigned
Sheet	2	of	2
		Attorney Docket Number	WSU-00002

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
FP		HAN ET AL.; "Acoustic Chaos and Sonic Infrared Imaging;" American Institute of Physics; Vol. 81, No. 17; 10/21/2002; USA.		
FP		YU SOLODOV ET AL.; "CAN: an example of nonclassical acoustic nonlinearity in solids;" Elsevier Science B.V.; Ultrasonics 40 (2002) 621-625; Moscow, Russia.		
FP		B.A. KORSHAK ET AL.; "DC effects, sub-harmonics, stochasticity and 'memory' for contact acoustic non-linearity;" Elsevier Science B.V.; Ultrasonics 40 (2002) 707-713; Moscow, Russia.		
FP		YU SOLODOV ET AL.; "Instability, Chaos, and 'Memory' in Acoustic-Wave-Crack Interaction;" The American Physical Society; Physical Review Letters Vol. 88, No. 1; 12/19/2001; Moscow, Russia.		
FP		N. KROHN ET AL.; "Nonlinear Vibrometry for Quality Assurance;" American Institute of Physics; Review of Progress in Quantitative Nondestructive Evaluation, Vol. 20, ed. 2001; Germany.		
FP		HAN ET AL.; "Enhancement of Sonic IR Imaging by Using Chaotic Acoustic Pulses;" Wayne State University; Detroit, Michigan.		
FP		HAN ET AL.; "Enhancement of Sonic IR Imaging through the use of Chaotic Acoustic Pulses;" ASNT 12th Annual Research Symposium 2003; Institute for Manufacturing Research, Wayne State University.		

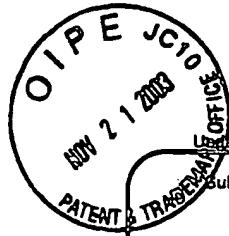
Examiner Signature		Date Considered	5-20-05
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 1

Complete if Known

Application Number	10/647,569
Filing Date	August 25, 2003
First Named Inventor	Wayne State University et al.
Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	WSU-00002

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
FP		US- 3,599,477	08/17/1971	Sherman E. Cohen et al.	
FP		US- 3,756,071	09/04/1973	Dory	
FP		US- 3,861,200	01/21/1975	Dory	
FP		US- 4,174,635	11/20/1979	Oldendorf	
FP		US- 4,607,341	08/19/1986	Monchalin	
FP		US- 5,461,921	10/31/1995	Papadakis et al.	
FP		US- 5,493,511	02/20/1996	Wincheski et al.	
FP		US- 5,633,468	05/27/1997	Powers et al.	
FP		US- 5,763,786	06/19/1998	Camplin et al.	
FP		US- 6,622,560	09/23/2003	Song et al.	
FP		US- US 2002/0121602 A1	09/05/2002	Thomas et al.	
FP		US- US 2002/0172410 A1	11/21/2002	Shepard	
FP		US- US 2003/0010124 A1	01/16/2003	Bates	
FP		US- US 2003/0106376 A1	06/12/2003	Shirzad et al.	
FP		US- US 2003/0115963 A1	06/26/2003	Song et al.	
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ "Number" "Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁵
FP		JP 62242852	10/23/1987	Takazawa Giichi		
FP		JP 10311822	11/24/1998	Nagai Satoshi		

Examiner Signature

Date Considered

5-20-05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTC

AUG 1 3 2004

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

of 1

<i>Complete if Known</i>	
Application Number	10/647,569
Filing Date	8-25-03
First Named Inventor	Lawrence D. Favro et al.
Art Unit	2878
Examiner Name	To be assigned
Attorney Docket Number	WSLI-00002

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
FP		DE 100 59 854 4 A	06-13-2002	Busse et al.	
FP		WO 01/53821 A1	07-26-2001	Bae Systems PLC	

**Examiner
Signature**

John C. Clegg

Date
Considered

5-20-05

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional)² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.